

In the Abstract:

A disk drive is capable of reducing power consumption by changing an operation clock used by the disk drive in accordance with the condition of data transfer. The disk drive includes an HDC-(2) for setting the operation clock and controlling writing and reading based on a transfer command, an interface-(1) for inputting and outputting data from and to a host device, a memory-(3) for temporarily holding data, and a PLL-(5) for changing an operation clock used by the HDC-(2), the interface-(1) and the memory-(3) based on a setting of the operation clock, a. The disk drive further includes a recording medium-(12) for holding data, a read and write part for writing data into the recording medium-(12) or reading data from the recording medium-(12), and a mechanism for controlling the recording medium (12) and the head-(11).